

FLOWERING PLANTS OF JAMAICA

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MONA · JAMAICA

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Preliminaries in 10 on 11 point
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5. *E. velutina* Willd. in Ges. Naturf. Freunde, Neue Schr. 3: 426 (1801).—Coral Tree, Red Bean Tree.

Tree to 20 m. high with prickles on trunk and branches; leaflets rhomboid-ovate to subrotundate, tomentose beneath, 5–15 (–20) cm. long, up to 10 (–20) cm. broad; inflorescence 12–25 cm. long; calyx 2.5–3 cm. long; wing and keel petals olive-brown with crimson margins; pod (5–) 8–13 cm. long; seeds red, about 1.5 cm. long.

Local, cultivated and probably naturalized along roadsides; 500–1700 feet; fl. Feb–Apr, fr. Apr. *A 12503! Bengry! Fawcett!* Native of tropical S. Amer., introduced elsewhere.

27. MUCUNA Adans. (1763) nom. cons.

1 Leaflets glabrous beneath; peduncle up to about 1 m. long, the flowers in a short terminal raceme; standard petal and wings purplish, keel yellowish; fruit 10–20 cm. long, 5 cm. broad, transversely ribbed, pubescent and with urticating hairs 1. *urens*

1 Leaflets thinly to densely appressed-pubescent beneath:

2 Flowers yellow, clustered at the end of a peduncle as long as to twice as long as the petiole; calyx nearly 2 cm. long; leaflets silvery-sericeous beneath, obscurely mucronate; hilum almost surrounding the seed, flat:

3 Flowers subumbellate; standard petal 3–3.5 (–4) cm. long; wings 5–5.5 (–6.5) cm. long; fruit with distinct marginal wings 2–5 mm. broad; seeds mostly about 2.5 cm. in diameter, the hilum 5 mm. broad 2. *sloanei*

3 Flowers on an expanded receptacle; standard petal 5–5.5 cm. long, wings 7–8 cm. long; marginal wings of fruit obsolete; seeds 3.5–4 cm. in diameter, the hilum about 10 mm. broad 3. *fawcettii*

2 Flowers usually purplish, about 3.5 cm. long, in racemes or rarely solitary; peduncle often shorter than petiole; calyx about 1 cm. long; leaflets thinly sericeous beneath, conspicuously mucronate; hilum 5–8 mm. long; prominently carunculate:

4 Fruit brown, pubescent and with caducous urticating bristly hairs; seeds brown mottled black, 10–12 mm. long; keel as long as to a little longer than wings 4. *pruriens*

4 Fruit greyish, velvety-appressed-tomentose without urticating hairs; seeds greyish-white often mottled dull brown, 15–18 mm. long; keel longer than wings, sharply ascending; sparingly cultivated; native probably of tropical Asia, but first described from Florida; Velvet Bean *M. deeringiana* (Bort) Merr.

1. *M. urens* (L.) Medic. in Vorles. Churpf. Ges. 2: 399 (1787).—*Dolichos urens* L. (1759). Ox-eye Bean.

Climber; leaflets ovate to oblong, abruptly acuminate, 8–16 cm. long, 4–7.5 cm. broad; raceme zigzag, 5–10 cm. long; pedicels solitary or 2–3 together, about 1 cm. long; calyx about 1 cm. long; standard petal 3–4 cm. long, nearly as long as wings; keel slightly longer than the wings, turned up sharply at tip; seeds roundish-compressed, (2–) 3–4 cm. in diameter, yellowish-grey, almost surrounded by the black hilum.

Very rare and not recently collected; reported from St. Mary and Portland; fl. Sept–Oct. C. and S. Amer., Cuba, Hispaniola, Puerto Rico, St. Kitts to Trinidad.

2. *M. sloanei* F. & R. in Journ. Bot. 55: 36 (1917).—Horse-eye Bean.

Climber to 6 m. or more high; leaflets ovate to elliptical, shortly acuminate, 7–16 cm. long, 4.5–9 (–14) cm. broad; pedicels 6–12 mm. long; flowers rich lemon-yellow; keel slightly longer than wings; pod 10–18 cm. long, 4–6 cm. broad, obliquely transversely ridged, 2–4-seeded, hispid with urticating hairs.

Occasional, on trees at woodland margins and along streambanks; 500–2500 feet; fl. Nov–Feb., fr. Jan–Apr. *A 9967! H 5590! P 20552!* Throughout tropical Amer. and also W. Africa.

3. *M. fawcettii* Urb., Symb. Ant. 5: 371 (1908).

Climber like the last; leaflets rounded-elliptical, shortly acuminate, 13–17 cm. long, 12–15 cm. broad; pedicels about 10 mm. long; flowers yellow; keel longer than wings; pod 12 cm. long, 5.5 cm. broad, 1–2-seeded, hispid with bristly hairs.

Very rare (Trel.); about 2000 feet; fl. Nov–Dec. *H 8818! 9102!* Endemic.

4. *M. pruriens* (L.) DC., Prodr. 2: 405 (1825).—*Dolichos pruriens* L. (1754).
Cowitch.

Twining climber; leaflets rhomboid-ovate, obtuse or acute at tip, 7–15 cm. long, 6–10 cm. broad, with petioles up to 20 (–30) cm. long; inflorescence longer or shorter than petiole; pedicels up to 8 mm. long; corolla deep or reddish-purple, sometimes yellowish at base or rarely all yellow; pod 4–8 cm. long, about 1.5 cm. broad, 2–6-seeded.

Frequent, in cultivations, thickets and woodland margins; 250–2500 feet; fl. Oct–Mar, fr. Nov–Mar, Aug. *A 8350!* *J.P. 636!* *Powell 693!* *P 20704!* General in the tropics; Grand Cayman.

28. *PSOPHOCARPUS* DC. (1825) nom. cons.

Fruit 4–6 cm. long, with denticulate wings 4–5 mm. broad; inflorescence 15–30 cm. long including stout peduncle; flowers about 2 cm. long

1. *palustris*
Fruit 15–20 cm. long, 12–15 seeded, with subtentire wings 7–8 mm. broad; inflorescence 10–12 cm. long including slender peduncle; flowers about 2.5 cm. long, light violet; leaflets ovate-triangular, acute, subglabrous; at one time cultivated; native of tropical Asia; Manila Bean
P. tetragonolobus (L.) DC.

1. *P. palustris* Desv. in Ann. Sci. Nat. sér. 1, 9: 420 (1826).

Rather robust trailing and spreading climber; leaflets broadly ovate-rhomboid, sometimes shallowly 3-lobed, shortly acuminate, 4–9 (–12) cm. long, 3.5–8 (–9) cm. broad, thinly pubescent on the veins beneath; stipels oblong; paired bracteoles broadly ovate, longer than calyx, deciduous; calyx 6–7 mm. long, campanulate, the lateral lobes short; standard petal and wings bright blue within, standard greenish outside; keel petals joined at tip only, greenish-cream; seeds black, subglobose, puberulous, about 6 mm. long.

Naturalized locally (St. Cath., Clar., Port.), in damp places at streamsides, swamp margins and in roadside thickets; SL–1600 feet; fl. Nov–Mar, fr. Dec–Mar. *A 8441!* *11847!* *Powell 704!* *Yuncker 17955!* Native of tropical Africa.

29. *PHASEOLUS* L. (1753)

1 Keel forming more than 1 and up to 2 spirals:

2 Corolla 2–2.5 cm. long; flowers aggregated or in a short raceme; peduncle stout; bracts (at base of pedicel) deciduous; pedicels very short; bracteoles (at apex of pedicel) shorter than calyx; lateral calyx-teeth lanceolate-falcate; fruit linear, 10–15-seeded
1. *adenanthus*

2 Corolla 1–1.5 cm. long; bracts persistent; lateral calyx-teeth ovate to deltate, not falcate:

3 Flowers few in a cluster; peduncle very short, less than 1 cm. long; bracteoles broad, usually longer than calyx; corolla white or purplish; fruit linear, often slightly curved, 10–15 cm. long, 4–6-seeded; seeds reniform; cultivated; Red Peas
P. vulgaris L.

3 Flowers in elongated racemes; peduncle up to 5 cm. or more long; bracteoles ovate, shorter than calyx; flowers 3 or more together at each node of raceme; fruit much narrower near base than towards tip, slightly curved adaxially, deeply curved abaxially, 2–4-seeded; seeds flat
2. *lunatus*

1 Keel forming 1 or an incomplete spiral; peduncles 5 cm. or more long:

5 Stipules appendaged at base; flowers clustered at tip of a peduncle (5–) 8–12 cm. long; bracteoles longer than calyx; calyx-teeth broadly ovate; petals yellow; standard 11–13 mm. long; keel forming one complete spiral; fruit 6–7 mm. broad, pilose
3. *trichocarpus*

5 Stipules truncate at base; peduncles (6–) 10–30 cm. long; bracteoles shorter than calyx; fruit about 5 mm. broad, thinly appressed-pubescent:

6 Lateral calyx-teeth deltate, not falcate; flowers more or less racemose; petals white to light purple; standard about 15 mm. long; keel sigmoid
4. *peduncularis*

6 Lateral calyx-teeth falcate; flowers in 1 or a few clusters; petals mauve fading yellowish or dull orange; standard about 20 mm. long; keel twisted and bent to one side
5. *antillanus*

1. *P. adenanthus* G. F. W. Meyer, Prim. Fl. Esseq.: 239 (1818).

Perennial twiner; stipules truncate at base; stem and petioles thinly hispid, the petiolules more densely pubescent with shaggy brownish hairs; leaflets ovate to